

10/506796

SEQUENCE LISTING

<110> MOR, Tsafirir
MATOBA, Nobuyuki
ARNTZEN, Charles

<120> COMPOSITION AND METHOD FOR ENHANCING IMMUNE RESPONSE

<130> 01231.0006U2

<140> 10/506,796

<141> 2004-09-03

<150> PCT/US03/07073

<151> 2003-03-06

<150> 60/362,247

<151> 2002-03-06

<160> 9

<170> PatentIn version 3.2

<210> 1

<211> 35

<212> PRT

<213> Human immunodeficiency virus type 1

<220>

<221> PEPTIDE

<222> (1)..(35)

<223> HIV-1 gp41 peptide portion (residues 650-685)

<400> 1

Ser Gln Thr Gln Gln Glu Lys Asn Glu Gln Glu Leu Leu Glu Leu Asp
1 5 10 15
Lys Trp Ala Ser Leu Trp Asn Trp Phe Asp Ile Thr Asn Trp Leu Trp
20 25 30
Tyr Ile Lys
35

<210> 2

<211> 6

<212> PRT

<213> Human immunodeficiency virus type 1

<220>

<221> PEPTIDE

<222> (1)..(6)

<223> HIV-1 gp41 peptide portion (residues 663-668)

<400> 2

Glu Leu Asp Lys Trp Ala
1 5

<210> 3
 <211> 36
 <212> PRT
 <213> Human immunodeficiency virus type 1

<400> 3

Cys Ser Gln Thr Gln Gln Glu Lys Asn Glu Gln Glu Leu Leu Glu Leu
 1 5 10 15
 Asp Lys Trp Ala Ser Leu Trp Asn Trp Phe Asp Ile Thr Asn Trp Leu
 20 25 30
 Trp Tyr Ile Lys
 35

<210> 4
 <211> 36
 <212> PRT
 <213> Human immunodeficiency virus type 1

<220>
 <221> PEPTIDE
 <222> (1)..(35)
 <223> HIV-1 isolate MN clone v5 (residues 649-685)

<400> 4

Ser Gln Thr Gln Gln Glu Lys Asn Glu Gln Glu Leu Leu Gly Leu Asp
 1 5 10 15
 Lys Trp Glu Ser Leu Trp Asn Trp Phe Asp Ile Thr Asn Trp Leu Trp
 20 25 30
 Tyr Ile Lys Ile
 35

<210> 5
 <211> 36
 <212> PRT
 <213> Human immunodeficiency virus type 1

<220>
 <221> PEPTIDE
 <222> (1)..(36)
 <223> HIV-1 isolate 593 clone (residues 649-685)

<400> 5

Ser Gln Asn Gln Gln Glu Lys Asn Glu Gln Glu Leu Leu Glu Leu Asp
 1 5 10 15
 Lys Trp Ala Gly Leu Trp Asn Trp Phe Glu Ile Thr Asn Trp Leu Trp
 20 25 30
 Tyr Ile Lys Ile
 35

<210> 6
 <211> 36
 <212> PRT
 <213> Human immunodeficiency virus type 1

<220>

<221> PEPTIDE

<222> (1)..(36)

<223> HIV-1 isolate 98BRRS012 (residues 649-685)

<400> 6

Ser	Gln	Asn	Gln	Gln	Glu	Lys	Asn	Glu	His	Glu	Leu	Leu	Glu	Leu	Asp
1				5				10					15		
Lys	Trp	Ala	Asn	Leu	Trp	Asn	Trp	Phe	Asp	Ile	Thr	Asn	Trp	Leu	Trp
			20					25					30		
Tyr	Ile	Lys	Ile												
			35												

<210> 7

<211> 36

<212> PRT

<213> Human immunodeficiency virus type 1

<220>

<221> PEPTIDE

<222> (1)..(36)

<223> HIV-1 isolate 1924v3.20 (residues 649-685)

<400> 7

Ser	Gln	Asn	Gln	Gln	Glu	Lys	Asn	Glu	Gln	Asp	Leu	Leu	Glu	Leu	Asp
1				5				10					15		
Lys	Trp	Ala	Ser	Leu	Trp	Asn	Trp	Phe	Asp	Ile	Ser	Asn	Trp	Leu	Trp
			20					25					30		
Tyr	Ile	Lys	Ile												
			35												

<210> 8

<211> 522

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence; note = synthetic construct

<400> 8

ccatggctat	caagctcaag	tttggagtgt	tcttcactgt	gctccttagc	tctgcctatg	60
cacatggcac	cccacaaaac	atcactgact	tgtgtgctga	gtaccacaac	acccaaatcc	120
acaaccctca	atgacaagat	ctttagctac	accgagagcc	ttgctggcaa	gagggagatg	180
gctatcatcc	cttcaagaat	ggtgctacct	tccaagtggg	ggtgcctgga	agccaacaca	240
ttgatagcca	aaagaaggcc	attgagagga	tgaaggacac	attaggatag	cttacctcac	300
tgaggctaag	gtggagaagc	tttgtgtgtg	gaacaacaag	actccacatg	ctattgctgc	360
cattagcatg	gcaaattggtc	ctggaccttc	ccaaacccaa	caagagaaga	atgagcaaga	420
gcttttggag	ttggacaagt	ggcaagcctt	tgggaattggt	ttgacatcac	caattggctt	480
tggtatatca	agatctctga	gaaggatgaa	ctctaagagc	tc		522

<210> 9

<211> 171

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence; note = synthetic construct

<400> 9

Met	Ala	Ile	Lys	Leu	Lys	Phe	Gly	Val	Phe	Phe	Thr	Val	Leu	Leu	Ser
1				5					10				15		
Ser	Ala	Trp	Ala	His	Gly	Thr	Pro	Gln	Asn	Ile	Thr	Asp	Leu	Cys	Ala
			20					25					30		
Glu	Tyr	His	Asn	Thr	Gln	Ile	His	Thr	Leu	Asn	Asp	Lys	Ile	Phe	Ser
		35					40					45			
Tyr	Thr	Glu	Ser	Leu	Ala	Gly	Lys	Arg	Glu	Met	Ala	Ile	Ile	Thr	Phe
	50					55					60				
Lys	Asn	Gly	Ala	Thr	Phe	Gln	Val	Glu	Val	Pro	Gly	Ser	Gln	His	Ile
65					70					75				80	
Asp	Ser	Gln	Lys	Lys	Ala	Ile	Glu	Arg	Met	Lys	Asp	Thr	Leu	Arg	Ile
			85						90					95	
Ala	Thr	Leu	Thr	Glu	Ala	Lys	Val	Glu	Lys	Leu	Cys	Val	Trp	Asn	Asn
			100					105					110		
Lys	Thr	Pro	His	Ala	Ile	Ala	Ala	Ile	Ser	Met	Ala	Asn	Gly	Pro	Gly
		115					120					125			
Pro	Ser	Gln	Thr	Gln	Gln	Glu	Lys	Asn	Glu	Gln	Glu	Leu	Leu	Glu	Leu
	130					135					140				
Asp	Lys	Trp	Ala	Ser	Leu	Trp	Asn	Trp	Phe	Asp	Ile	Thr	Asn	Trp	Leu
145					150					155					160
Trp	Tyr	Ile	Lys	Ile	Ser	Glu	Lys	Asp	Glu	Leu					
				165					170						